

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
J2	10226-55G3VC	Connector, .050" Boardmount R.A. , 26 Pos. Recepticle
Part Quantity per Board 1		

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
J1	10268-55H3VC	Connector, .050" Boardmount R.A. , 68 Pos. Recepticle
Part Quantity per Board 1		

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
D1	1N5908	6V Transient Voltage Suppressor
Part Quantity per Board 1		

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
D2	1N6277	16V Transient Voltage Suppressor
D3	1N6277	16V Transient Voltage Suppressor
Part Quantity per Board 2		

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
F2	251001	Fuse, 1A, Pico II
F3	251001	Fuse, 1A, Pico II
Part Quantity per Board 2		

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
F1	251002	Fuse, 2A, Pico II
Part Quantity per Board 1		

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
TST4	2520-6002UB	Connector, Logic Analyser, 20 Pin Header, Straight, .11
TST2	2520-6002UB	Connector, Logic Analyser, 20 Pin Header, Straight, .11
TST1	2520-6002UB	Connector, Logic Analyser, 20 Pin Header, Straight, .11
TST3	2520-6002UB	Connector, Logic Analyser, 20 Pin Header, Straight, .11
Part Quantity per Board 4		

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
RP16	4816P-1-560	Resistor Network, 56 Ohm, 8 Isolated, surface mount, .0
RP13	4816P-1-560	Resistor Network, 56 Ohm, 8 Isolated, surface mount, .0
RP14	4816P-1-560	Resistor Network, 56 Ohm, 8 Isolated, surface mount, .0
RP15	4816P-1-560	Resistor Network, 56 Ohm, 8 Isolated, surface mount, .0
RP17	4816P-1-560	Resistor Network, 56 Ohm, 8 Isolated, surface mount, .0
RP18	4816P-1-560	Resistor Network, 56 Ohm, 8 Isolated, surface mount, .0
RP20	4816P-1-560	Resistor Network, 56 Ohm, 8 Isolated, surface mount, .0
RP19	4816P-1-560	Resistor Network, 56 Ohm, 8 Isolated, surface mount, .0
RP21	4816P-1-560	Resistor Network, 56 Ohm, 8 Isolated, surface mount, .0

Part Quantity per Board 9

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
RP22	4816P-2-102	Resistor Network, 1K Ohm, 8 Isolated, surface mount, .
RP23	4816P-2-102	Resistor Network, 1K Ohm, 8 Isolated, surface mount, .

Part Quantity per Board 2

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
P2	650473-5	Connector, 96 Pin, 3x32 DIN-VME RA PCB Male VMEP
P1	650473-5	Connector, 96 Pin, 3x32 DIN-VME RA PCB Male VMEP

Part Quantity per Board 2

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
U27	74ABT16244CSSC	16-Bit Buffer Line Driver w/ Tri-State Outputs

Part Quantity per Board 1

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
U57	74ABT244CSC	8-Bit Buffer Line Driver w/ Tri-State Outputs
U64	74ABT244CSC	8-Bit Buffer Line Driver w/ Tri-State Outputs
U63	74ABT244CSC	8-Bit Buffer Line Driver w/ Tri-State Outputs

Part Quantity per Board 3

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
U30	74LS123D	Retriggerable Monostable Multivibrators

Part Quantity per Board 1

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
U69	90HBJ10S	DIP Switch, 10 position, Surface Mount
U70	90HBJ10S	DIP Switch, 10 position, Surface Mount
Part Quantity per Board	2	

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
U45	AD669BR	16-Bit DACPORT
Part Quantity per Board	1	

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
U51	DS1232S	Micro Monitor, Power on reset and watchdog timer
Part Quantity per Board	1	

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
U65	DS1869-10	IC, Dallastat Electronic Digital Rheostat, 8 pin DIP
Part Quantity per Board	1	

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
U38	DS90C031TM	LVDS Driver, Quad
U33	DS90C031TM	LVDS Driver, Quad
U36	DS90C031TM	LVDS Driver, Quad
U35	DS90C031TM	LVDS Driver, Quad
U34	DS90C031TM	LVDS Driver, Quad
U39	DS90C031TM	LVDS Driver, Quad
U40	DS90C031TM	LVDS Driver, Quad
U41	DS90C031TM	LVDS Driver, Quad
U42	DS90C031TM	LVDS Driver, Quad
U37	DS90C031TM	LVDS Driver, Quad
Part Quantity per Board	10	

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
U22	DS90C032TM	LVDS Receiver, Quad
U15	DS90C032TM	LVDS Receiver, Quad
U19	DS90C032TM	LVDS Receiver, Quad
U23	DS90C032TM	LVDS Receiver, Quad
U18	DS90C032TM	LVDS Receiver, Quad
U21	DS90C032TM	LVDS Receiver, Quad
U16	DS90C032TM	LVDS Receiver, Quad
U17	DS90C032TM	LVDS Receiver, Quad
U20	DS90C032TM	LVDS Receiver, Quad

Part Quantity per Board	9
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<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
U80	LM78L05ACM	Regulator, Pos 5V, 100 mA, SO-8

Part Quantity per Board	1
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<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
U79	LM79L05ACM	Regulator, Neg 5V, 100 MA , SO-8

Part Quantity per Board	1
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<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
U76	LTL-4291N	LED, Orange, 2.1 Vf at 20 mA, .118 in. dia.

Part Quantity per Board	1
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<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
U73	LTL-42B5	LED, Blue, 3.0 Vf at 20 mA, .118 in. dia.

Part Quantity per Board	1
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<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
U71	MAX6225AEPA	IC, Precision +2.5VDC Reference, 8 pin DIP

Part Quantity per Board	1
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<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
U59	MC88915FN55	PLL Clock Driver, CMOS, Low Skew, PLCC

Part Quantity per Board	1
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<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
U46	OPA1013	Dual Op-Amp, Precision
U47	OPA1013	Dual Op-Amp, Precision
Part Quantity per Board		2

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
R46	P1.0KACT-ND	Resistor, 1000 Ohms, 0805 Surface Mount
R33	P1.0KACT-ND	Resistor, 1000 Ohms, 0805 Surface Mount
R40	P1.0KACT-ND	Resistor, 1000 Ohms, 0805 Surface Mount
R36	P1.0KACT-ND	Resistor, 1000 Ohms, 0805 Surface Mount
R11	P1.0KACT-ND	Resistor, 1000 Ohms, 0805 Surface Mount
R37	P1.0KACT-ND	Resistor, 1000 Ohms, 0805 Surface Mount
Part Quantity per Board		6

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
R1	P1.0MACT-ND	Resistor, 1M Ohms, 0805 Surface Mount
R2	P1.0MACT-ND	Resistor, 1M Ohms, 0805 Surface Mount
Part Quantity per Board		2

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
R12	P158CCT-ND	Resistor, 158 Ohms, 0805 Surface Mount, 1/10W
R32	P158CCT-ND	Resistor, 158 Ohms, 0805 Surface Mount, 1/10W
Part Quantity per Board		2

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
R41	P16KACT-ND	Resistor, 16K Ohms, 0805 Surface Mount
Part Quantity per Board		1

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
R19	P22ACT-ND	Resistor, 22 Ohms, 0805 Surface Mount (CM TERM.)
R21	P22ACT-ND	Resistor, 22 Ohms, 0805 Surface Mount (CM TERM.)
R17	P22ACT-ND	Resistor, 22 Ohms, 0805 Surface Mount (CM TERM.)
R16	P22ACT-ND	Resistor, 22 Ohms, 0805 Surface Mount (CM TERM.)
R18	P22ACT-ND	Resistor, 22 Ohms, 0805 Surface Mount (CM TERM.)
R22	P22ACT-ND	Resistor, 22 Ohms, 0805 Surface Mount (CM TERM.)
R23	P22ACT-ND	Resistor, 22 Ohms, 0805 Surface Mount (CM TERM.)
R25	P22ACT-ND	Resistor, 22 Ohms, 0805 Surface Mount (CM TERM.)
R24	P22ACT-ND	Resistor, 22 Ohms, 0805 Surface Mount (CM TERM.)
R20	P22ACT-ND	Resistor, 22 Ohms, 0805 Surface Mount (CM TERM.)
Part Quantity per Board		10

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
R35	P3.0KACT-ND	Resistor, 3000 Ohms, 0805 Surface Mount
R34	P3.0KACT-ND	Resistor, 3000 Ohms, 0805 Surface Mount
Part Quantity per Board		2

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
R38	P330ACT-ND	Resistor, 330 Ohms, 0805 Surface Mount
Part Quantity per Board		1

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
R45	P47.5CCT-ND	Resistor, 47.5 Ohms, 0805 Surface Mount, 1/10W
R30	P47.5CCT-ND	Resistor, 47.5 Ohms, 0805 Surface Mount, 1/10W
R43	P47.5CCT-ND	Resistor, 47.5 Ohms, 0805 Surface Mount, 1/10W
R31	P47.5CCT-ND	Resistor, 47.5 Ohms, 0805 Surface Mount, 1/10W
R44	P47.5CCT-ND	Resistor, 47.5 Ohms, 0805 Surface Mount, 1/10W
Part Quantity per Board		5

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
R39	P475KCCT-ND	Resistor, 475K Ohms, 0805 Surface Mount, 1/10W
Part Quantity per Board		1

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
R7	P5.1KACT-ND	Resistor, 5000 Ohms, 0805 Surface Mount
Part Quantity per Board		1

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
R10	P56.2CCT-ND	Resistor, 56.2 Ohms, 0805 Surface Mount, 1/10W
Part Quantity per Board		1

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
R42	P82KACT-ND	Resistor, 82K Ohms, 0805 Surface Mount
Part Quantity per Board		1

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
C92	PCC103BCT	Capacitor, 0.01 uf, 50 WVDC, 1206 Surface Mount
C66	PCC103BCT	Capacitor, 0.01 uf, 50 WVDC, 1206 Surface Mount
C65	PCC103BCT	Capacitor, 0.01 uf, 50 WVDC, 1206 Surface Mount
Part Quantity per Board		3

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
C33	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C3	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C20	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C93	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C94	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C95	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C43	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C1	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C90	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C54	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C52	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C29	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C28	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C27	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C26	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C25	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C22	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C21	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C17	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C57	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C64	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C56	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C63	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C62	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C61	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C60	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C91	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C59	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C88	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C9	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C55	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C58	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C8	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C85	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C86	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C89	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C6	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C40	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C49	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C48	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C47	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C46	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C45	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount

C44	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C30	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C5	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C53	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C4	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C31	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C39	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C96	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C37	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C36	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C35	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C34	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C42	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C104	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C18	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C32	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C16	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C14	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C13	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C50	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C11	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C103	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C102	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C101	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C38	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C10	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C19	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C41	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C7	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C51	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount
C12	PCC104BCT	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount

Part Quantity per Board 74

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
U43	PLCC-084-T-N	Socket, 84 Pin PLCC, Surfacemount
U62	PLCC-084-T-N	Socket, 84 Pin PLCC, Surfacemount

Part Quantity per Board 2

<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
U72	SSF-LXH103LGD	LED, Green, Single, PC Mount, Low current
U77	SSF-LXH103LGD	LED, Green, Single, PC Mount, Low current
U78	SSF-LXH103LGD	LED, Green, Single, PC Mount, Low current
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Part Quantity per Board	3	
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<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
U74	SSF-LXH103LID	LED, Red, Single, Low current
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Part Quantity per Board	1	
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<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
U75	SSF-LXH103YD	LED, Yellow, Single, PC Mount, Low current
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Part Quantity per Board	1	
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<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
C98	T340B106M015AS	Capacitor, 10.0 uf, 16 WVDC, Tantalum (THRU-HOLE)
C97	T340B106M015AS	Capacitor, 10.0 uf, 16 WVDC, Tantalum (THRU-HOLE)
C81	T340B106M015AS	Capacitor, 10.0 uf, 16 WVDC, Tantalum (THRU-HOLE)
C82	T340B106M015AS	Capacitor, 10.0 uf, 16 WVDC, Tantalum (THRU-HOLE)
C80	T340B106M015AS	Capacitor, 10.0 uf, 16 WVDC, Tantalum (THRU-HOLE)
C84	T340B106M015AS	Capacitor, 10.0 uf, 16 WVDC, Tantalum (THRU-HOLE)
C83	T340B106M015AS	Capacitor, 10.0 uf, 16 WVDC, Tantalum (THRU-HOLE)
C100	T340B106M015AS	Capacitor, 10.0 uf, 16 WVDC, Tantalum (THRU-HOLE)
C99	T340B106M015AS	Capacitor, 10.0 uf, 16 WVDC, Tantalum (THRU-HOLE)
C79	T340B106M015AS	Capacitor, 10.0 uf, 16 WVDC, Tantalum (THRU-HOLE)
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Part Quantity per Board	10	
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<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
U49	TPA11CGRA0	switch, spst, momentary contact, norm open
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Part Quantity per Board	1	
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<u>Ref. Designators</u>	<u>Part Number</u>	<u>Part Description</u>
S18	TSW-102-07-G-S	Jumper Pin Array, 2 way
S20	TSW-102-07-G-S	Jumper Pin Array, 2 way
S16	TSW-102-07-G-S	Jumper Pin Array, 2 way
S21	TSW-102-07-G-S	Jumper Pin Array, 2 way
S28	TSW-102-07-G-S	Jumper Pin Array, 2 way
S27	TSW-102-07-G-S	Jumper Pin Array, 2 way
S19	TSW-102-07-G-S	Jumper Pin Array, 2 way
S22	TSW-102-07-G-S	Jumper Pin Array, 2 way
Part Quantity per Board		8

Fermilab PURCHASE REQUISITION

Requisition

Regulation Number (Filled in by System)	Oracle Preparer (Filled in by System)	Date 2/8/02	Request Originator: Craig Drennan	Extension: MS: x2160 MS222
Division/Section Approval		Date	NEPA Approval	
Business Office Approval		Date		
Directorate Approval		Date		

Requisition Header

Description (of entire requisition)	Electronic components for the SMC Crate Controller and SMD SMQIE Boards
Note to Approver	

Requisition Entry Defaults

Requester Craig Drennan		Deliver-To-Location WH14E	Note to Buyer	
Suggested Vendor ALLIED : Allied Electronics, Inc www.allied.avnet.com		Suggested Vendor Site 765 North Route 83, Suite 114 Bensenville IL 60106-12	Suggested Vendor Contact	Suggested Vendor Telephone # (630) 860-0007
Reference #	Need-By-Date 6/15/99	Charge Account (Budget Code / Cost Element)	UN Number (Chemical #)	Hazard Class
Justification (To Approver)				
Note to Receiver				Total of Requisition \$5.24

Requisition Lines

Line #	Line Type	PO Line Category	Description (Start with a Noun) (240 Characters Maximum, Enter Additional Description in Cell Below Line Item)	Quantity	Unit of Measure	Price Per Unit	Extended Price	Charge Account / Cost Element	Split Coding Qty's
1	GR	Electronics	Connector, Logic Analyser, 20 Pin Header, Straight, .112" solder Pins 2520-6002UB , 3M , Stock #: 617-4075	4	Each	\$1.31	\$5.24	-41	

Total Cost: \$5.24

Fermilab PURCHASE REQUISITION

Requisition

Regulation Number (Filled in by System)	Oracle Preparer (Filled in by System)	Date 2/8/02	Request Originator: Craig Drennan	Extension: MS: x2160 MS222
Division/Section Approval		Date	NEPA Approval	
Business Office Approval		Date		
Directorate Approval		Date		

Requisition Header

Description (of entire requisition)	Electronic components for the SMC Crate Controller and SMD SMQIE Boards
Note to Approver	

Requisition Entry Defaults

Requester Craig Drennan		Deliver-To-Location WH14E	Note to Buyer	
Suggested Vendor ARROW : Arrow-Schweber Electronics www.arrowschweber.com		Suggested Vendor Si 1166 Spring Lake Drive Itasca IL 60143	Suggested Vendor Contact Linda	Suggested Vendor Telephone # (800) 777-2776
Reference #	Need-By-Date 6/15/99	Charge Account (Budget Code / Cost Element)	UN Number (Chemical #)	Hazard Class
Justification (To Approver)				
Note to Receiver				Total of Requisition \$16.80

Requisition Lines

Line #	Line Type	PO Line Category	Description (Start with a Noun) (240 Characters Maximum, Enter Additional Description in Cell Below Line Item)	Quantity	Unit of Measure	Price Per Unit	Extended Price	Charge Account / Cost Element	Split Coding Qty's
1	GR	Electronics	PLL Clock Driver, CMOS, Low Skew, PLCC MC88915FN55 , MOTOROLA , Stock #: MC88915FN55	1	Each	\$16.80	\$16.80	-41	

Total Cost: \$16.80

Fermilab PURCHASE REQUISITION

Requisition

Regulation Number (Filled in by System)	Oracle Preparer (Filled in by System)	Date 2/8/02	Request Originator: Craig Drennan	Extension: MS: x2160 MS222
Division/Section Approval		Date	NEPA Approval	
Business Office Approval		Date		
Directorate Approval		Date		

Requisition Header

Description (of entire requisition)	Electronic components for the SMC Crate Controller and SMD SMQIE Boards
Note to Approver	

Requisition Entry Defaults

Requester Craig Drennan		Deliver-To-Location WH14E	Note to Buyer	
Suggested Vendor BELFORD : Belford Electronics		Suggested Vendor Si 1460 Jefferey Drive Addison IL 60101	Suggested Vendor Contact Bob	Suggested Vendor Telephone # (630) 691-1100
Reference #	Need-By-Date 6/15/99	Charge Account (Budget Code / Cost Element)	UN Number (Chemical #)	Hazard Class
Justification (To Approver)				
Note to Receiver				Total of Requisitio \$14.92

Requisition Lines

Line #	Line Type	PO Line Category	Description (Start with a Noun) (240 Characters Maximum, Enter Additional Description in Cell Below Line Item)	Quantity	Unit of Measure	Price Per Unit	Extended Price	Charge Account / Cost Element	Split Coding Qty's
1	GR	Electronics	Socket, 84 Pin PLCC, Surfacemount PLCC-084-T-N , Samtec , Stock #: PLCC-084-T-N	4	Each	\$3.59	\$14.36	-41	
2	GR	Electronics	Jumper Pin Array, 2 way TSW-102-07-G-S , Samtec , Stock #:	8	Each	\$0.07	\$0.56	-41	

Total Cost:

\$14.92

Fermilab PURCHASE REQUISITION

Requisition

Regulation Number (Filled in by System)	Oracle Preparer (Filled in by System)	Date 2/8/02	Request Originator: <div style="text-align: center;">Craig Drennan</div>	Extension: x2160
			MS: MS222	
Division/Section Approval		Date	NEPA Approval	
Business Office Approval		Date		
Directorate Approval		Date		

Requisition Header

Description (of entire requisition)	Electronic components for the SMC Crate Controller and SMD SMQIE Boards
Note to Approver	

Requisition Entry Defaults

Requester <div style="text-align: center;">Craig Drennan</div>		Deliver-To-Location <div style="text-align: center;">WH14E</div>	Note to Buyer		
Suggested Vendor DIGIKEY : www.digikey.com		Suggested Vendor Site 701 Brooks Ave., South Thief River Falls MN 56701-06		Suggested Vendor Contact	Suggested Vendor Telephone # (800) 344-4539
Reference #	Need-By-Date 6/15/99	Charge Account (Budget Code / Cost Element)	UN Number (Chemical #)	Hazard Class	
Justification (To Approver)					
Note to Receiver					Total of Requisition <div style="text-align: right;">\$74.13</div>

Requisition Lines

Line #	Line Type	PO Line Category	Description (Start with a Noun) (240 Characters Maximum, Enter Additional Description in Cell Below Line Item)	Quantity	Unit of Measure	Price Per Unit	Extended Price	Charge Account / Cost Element	Split Coding Qty's
1	GR	Electronics	Resistor Network, 56 Ohm, 8 Isolated, surface mount, .050" pitch 4816P-1-560 , Bourns , Stock #: 4816P-1-560-ND	9	Each	\$0.83	\$7.47	-41	
2	GR	Electronics	Resistor Network, 1K Ohm, 8 Isolated, surface mount, .050" pitch 4816P-2-102 , Bourns , Stock #: 4816P-2-102-ND	2	Each	\$0.83	\$1.66	-41	
3	GR	Electronics	DIP Switch, 10 position, Surface Mount 90HBJ10S , Greyhill , Stock #: GH1308-ND	2	Each	\$5.40	\$10.80	-41	

Fermilab PURCHASE REQUISITION

4	GR	Electronics	Regulator, Pos 5V, 100 mA, SO-8 LM78L05ACM , National Semicond , Stock #: LM78L05ACM-ND	1	Each	\$4.60	\$4.60	-41	
5	GR	Electronics	Regulator, Neg 5V, 100 MA , SO-8 LM79L05ACM , National Semicond , Stock #: LM79L05ACM-ND	1	Each	\$4.90	\$4.90	-41	
6	GR	Electronics	IC, Precision +2.5VDC Reference, 8 pin DIP MAX6225AEPA , Maxim , Stock #: MAX6225AEPA-ND	1	Each	\$11.21	\$11.21	-41	
7	GR	Electronics	Dual Op-Amp, Precision OPA1013 , Burr Brown , Stock #: OPA1013CN8-ND	2	Each	\$3.24	\$6.48	-41	
8	GR	Electronics	Resistor, 1000 Ohms, 0805 Surface Mount P1.0KACT-ND , Panasonic , Stock #: P1.0KACT-ND	6	Each	\$0.09	\$0.54	-41	
9	GR	Electronics	Resistor, 1M Ohms, 0805 Surface Mount P1.0MACT-ND , Panasonic , Stock #: P1.0MACT-ND	2	Each	\$0.09	\$0.18	-41	
10	GR	Electronics	Resistor, 158 Ohms, 0805 Surface Mount, 1/10W P158CCT-ND , Panasonic , Stock #: P158CCT-ND	2	Each	\$0.12	\$0.24	-41	
11	GR	Electronics	Resistor, 16K Ohms, 0805 Surface Mount P16KACT-ND , Panasonic , Stock #: P16KACT-ND	1	Each	\$0.09	\$0.09	-41	
12	GR	Electronics	Resistor, 22 Ohms, 0805 Surface Mount (CM TERM.) P22ACT-ND , Panasonic , Stock #: P22ACT-ND	10	Each	\$0.09	\$0.90	-41	
13	GR	Electronics	Resistor, 3000 Ohms, 0805 Surface Mount P3.0KACT-ND , Panasonic , Stock #:	2	Each	\$0.89	\$1.78	-41	
14	GR	Electronics	Resistor, 330 Ohms, 0805 Surface Mount P330ACT-ND , Panasonic , Stock #: P330ACT-ND	1	Each	\$0.09	\$0.09	-41	

Fermilab PURCHASE REQUISITION

15	GR	Electronics	Resistor, 47.5 Ohms, 0805 Surface Mount, 1/10W P47.5CCT-ND , Panasonic , Stock #: P47.5CCT-ND	5	Each	\$0.12	\$0.60	-41	
16	GR	Electronics	Resistor, 475K Ohms, 0805 Surface Mount, 1/10W P475KCCT-ND , Panasonic , Stock #: P475KCCT-ND	1	Each	\$0.12	\$0.12	-41	
17	GR	Electronics	Resistor, 5000 Ohms, 0805 Surface Mount P5.1KACT-ND , Panasonic , Stock #: P5.1KACT-ND	1	Each	\$0.09	\$0.09	-41	
18	GR	Electronics	Resistor, 56.2 Ohms, 0805 Surface Mount, 1/10W P56.2CCT-ND , Panasonic , Stock #: P56.2CCT-ND	1	Each	\$0.12	\$0.12	-41	
19	GR	Electronics	Resistor, 82K Ohms, 0805 Surface Mount P82KACT-ND , Panasonic , Stock #: P82KACT-ND	1	Each	\$0.09	\$0.09	-41	
20	GR	Electronics	Capacitor, 0.01 uf, 50 WVDC, 1206 Surface Mount PCC103BCT , Panasonic , Stock #: PCC103BCT-ND	3	Each	\$0.13	\$0.39	-41	
21	GR	Electronics	Capacitor, 0.1 uf, 50 WVDC, 1206 Surface Mount PCC104BCT , Panasonic , Stock #: PCC104BCT-ND	74	Each	\$0.27	\$19.98	-41	
22	GR	Electronics	LED, Green, Single, PC Mount, Low current SSF-LXH103LGD , Lumex , Stock #: LU20125-ND	3	Each	\$0.36	\$1.08	-41	
23	GR	Electronics	LED, Red, Single, Low current SSF-LXH103LID , Lumex , Stock #: LU20121-ND	1	Each	\$0.36	\$0.36	-41	
24	GR	Electronics	LED, Yellow, Single, PC Mount, Low current SSF-LXH103YD , Lumex , Stock #: LU20117-ND	1	Each	\$0.36	\$0.36	-41	

Total Cost:

\$74.13

Fermilab PURCHASE REQUISITION

Requisition

Regulation Number (Filled in by System)	Oracle Preparer (Filled in by System)	Date 2/8/02	Request Originator: Craig Drennan	Extension: MS: x2160 MS222
Division/Section Approval		Date	NEPA Approval	
Business Office Approval		Date		
Directorate Approval		Date		

Requisition Header

Description (of entire requisition)	Electronic components for the SMC Crate Controller and SMD SMQIE Boards
Note to Approver	

Requisition Entry Defaults

Requester Craig Drennan		Deliver-To-Location WH14E	Note to Buyer	
Suggested Vendor HAMILTON : Hamilton Hallmark www.hh.avnet.com		Suggested Vendor Si 3030 South Creek Ln., Suite 30 Arlington Heights IL 60005	Suggested Vendor Contact Rina Foster	Suggested Vendor Telephone # (847) 797-7300
Reference #	Need-By-Date 6/15/99	Charge Account (Budget Code / Cost Element)	UN Number (Chemical #)	Hazard Class
Justification (To Approver)				
Note to Receiver				Total of Requisition \$12.33

Requisition Lines

Line #	Line Type	PO Line Category	Description (Start with a Noun) (240 Characters Maximum, Enter Additional Description in Cell Below Line Item)	Quantity	Unit of Measure	Price Per Unit	Extended Price	Charge Account / Cost Element	Split Coding Qty's
1	GR	Electronics	16-Bit Buffer Line Driver w/ Tri-State Outputs 74ABT16244CSSC , National Semicond , Stock #: 74ABT16244CSSC	1	Each	\$2.27	\$2.27	-41	
2	GR	Electronics	8-Bit Buffer Line Driver w/ Tri-State Outputs 74ABT244CSC , National Semicond , Stock #: 74ABT244CSC	3	Each	\$2.27	\$6.81	-41	
3	GR	Electronics	Retriggerable Monostable Multivibrators 74LS123D , National Semicond , Stock #: 74LS123D	1	Each	\$0.25	\$0.25	-41	

Fermilab PURCHASE REQUISITION

4	GR	Electronics	IC, Dallastat Electronic Digital Rheostat, 8 pin DIP DS1869-10 , Dallas Semiconduc , Stock #:	1	Each	\$3.00	\$3.00	-41	
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Total Cost:

\$12.33

Fermilab PURCHASE REQUISITION

Requisition

Regulation Number (Filled in by System)	Oracle Preparer (Filled in by System)	Date 2/8/02	Request Originator: Craig Drennan	Extension: x2160 MS: MS222
Division/Section Approval		Date	NEPA Approval	
Business Office Approval		Date		
Directorate Approval		Date		

Requisition Header

Description (of entire requisition)	Electronic components for the SMC Crate Controller and SMD SMQIE Boards
Note to Approver	

Requisition Entry Defaults

Requester Craig Drennan		Deliver-To-Location WH14E	Note to Buyer	
Suggested Vendor IEC : IEC/Integrated Electronics Corp.		Suggested Vendor Site 2401 W. Hassell Rd., Suite 150 Hoffman Estate IL 60195	Suggested Vendor Contact	Suggested Vendor Telephone # (800) 876-8676
Reference #	Need-By-Date 6/15/99	Charge Account (Budget Code / Cost Element)	UN Number (Chemical #)	Hazard Class
Justification (To Approver)				
Note to Receiver				Total of Requisition \$0.88

Requisition Lines

Line #	Line Type	PO Line Category	Description (Start with a Noun) (240 Characters Maximum, Enter Additional Description in Cell Below Line Item)	Quantity	Unit of Measure	Price Per Unit	Extended Price	Charge Account / Cost Element	Split Coding Qty's
1	GR	Electronics	LED, Orange, 2.1 Vf at 20 mA, .118 in. dia. LTL-4291N , LITEON , Stock #: LTL-4291N	1	Each	\$0.08	\$0.08	-41	
2	GR	Electronics	LED, Blue, 3.0 Vf at 20 mA, .118 in. dia. LTL-42B5 , LITEON , Stock #: LTL-42B5	1	Each	\$0.80	\$0.80	-41	

Total Cost:

\$0.88

Fermilab PURCHASE REQUISITION

Requisition

Regulation Number (Filled in by System)	Oracle Preparer (Filled in by System)	Date 2/8/02	Request Originator: Craig Drennan	Extension: MS: x2160 MS222
Division/Section Approval		Date	NEPA Approval	
Business Office Approval		Date		
Directorate Approval		Date		

Requisition Header

Description (of entire requisition)	Electronic components for the SMC Crate Controller and SMD SMQIE Boards
Note to Approver	

Requisition Entry Defaults

Requester Craig Drennan		Deliver-To-Location WH14E	Note to Buyer	
Suggested Vendor NEP : NEP Electronics, Inc		Suggested Vendor Si 805 Mittel Drive Wood Dale IL 60191	Suggested Vendor Contact John Reis	Suggested Vendor Telephone # (630) 595-8500
Reference #	Need-By-Date 6/15/99	Charge Account (Budget Code / Cost Element)	UN Number (Chemical #)	Hazard Class
Justification (To Approver)				
Note to Receiver				Total of Requisition \$8.85

Requisition Lines

Line #	Line Type	PO Line Category	Description (Start with a Noun) (240 Characters Maximum, Enter Additional Description in Cell Below Line Item)	Quantity	Unit of Measure	Price Per Unit	Extended Price	Charge Account / Cost Element	Split Coding Qty's
1	GR	Electronics	Connector, .050" Boardmount R.A. , 26 Pos. Recepticle 10226-55G3VC , 3M , Stock #:	1	Each	\$3.60	\$3.60	-41	
2	GR	Electronics	Connector, .050" Boardmount R.A. , 68 Pos. Recepticle 10268-55H3VC , 3M , Stock #:	1	Each	\$5.25	\$5.25	-41	

Total Cost:

\$8.85

Fermilab PURCHASE REQUISITION

Requisition

Regulation Number (Filled in by System)	Oracle Preparer (Filled in by System)	Date 2/8/02	Request Originator: <div style="text-align: center;">Craig Drennan</div>	Extension: x2160
			MS: MS222	
Division/Section Approval		Date	NEPA Approval	
Business Office Approval		Date		
Directorate Approval		Date		

Requisition Header

Description (of entire requisition)	Electronic components for the SMC Crate Controller and SMD SMQIE Boards
Note to Approver	

Requisition Entry Defaults

Requester <div style="text-align: center;">Craig Drennan</div>		Deliver-To-Location <div style="text-align: center;">WH14E</div>	Note to Buyer		
Suggested Vendor NEWARK : Newark Electronics www.newark.com		Suggested Vendor Site 7650 Plaza Court Willowbrook IL 60521-56		Suggested Vendor Contact <div style="text-align: center;">Lori</div>	Suggested Vendor Telephone # (630) 317-1000
Reference #	Need-By-Date <div style="text-align: center;">6/15/99</div>	Charge Account (Budget Code / Cost Element)		UN Number (Chemical #)	Hazard Class
Justification (To Approver)					
Note to Receiver					Total of Requisition <div style="text-align: right;">\$32.77</div>

Requisition Lines

Line #	Line Type	PO Line Category	Description (Start with a Noun) (240 Characters Maximum, Enter Additional Description in Cell Below Line Item)	Quantity	Unit of Measure	Price Per Unit	Extended Price	Charge Account / Cost Element	Split Coding Qty's
1	GR	Electronics	6V Transient Voltage Suppressor 1N5908 , Motorola , Stock #: 1N5908	1	Each	\$0.89	\$0.89	-41	
2	GR	Electronics	16V Transient Voltage Suppressor 1N6277 , Motorola , Stock #: 1N6277	2	Each	\$0.89	\$1.78	-41	
3	GR	Electronics	Connector, 96 Pin, 3x32 DIN-VME RA PCB Male VMEPLG 650473-5 , AMP , Stock #: 93F5044	2	Each	\$8.87	\$17.74	-41	

Fermilab PURCHASE REQUISITION

4	GR	Electronics	Micro Monitor, Power on reset and watchdog timer DS1232S , Dallas Semiconduc , Stock #:	1	Each	\$5.00	\$5.00	-41	
5	GR	Electronics	Capacitor, 10.0 uf, 16 WVDC, Tantalum (THRU-HOLE) T340B106M015AS , KEMET , Stock #:	10	Each	\$0.27	\$2.70	-41	
6	GR	Electronics	switch, spst, momentary contact, norm open TPA11CGRA0 , AUGAT Alcoswitch , Stock #: 13F3638	1	Each	\$4.66	\$4.66	-41	

Total Cost: **\$32.77**

Fermilab PURCHASE REQUISITION

Requisition

Regulation Number (Filled in by System)	Oracle Preparer (Filled in by System)	Date 2/8/02	Request Originator: Craig Drennan	Extension: x2160 MS: MS222
Division/Section Approval		Date	NEPA Approval	
Business Office Approval		Date		
Directorate Approval		Date		

Requisition Header

Description (of entire requisition)	Electronic components for the SMC Crate Controller and SMD SMQIE Boards
Note to Approver	

Requisition Entry Defaults

Requester Craig Drennan		Deliver-To-Location WH14E	Note to Buyer	
Suggested Vendor Pioneer-Standard Electronics PIONEER :		Suggested Vendor Si 2171 Executive Drive, Suite 20 Addison IL 60101	Suggested Vendor Contact Mary Miles,	Suggested Vendor Telephone # (630) 495-9680
Reference #	Need-By-Date 6/15/99	Charge Account (Budget Code / Cost Element)	UN Number (Chemical #)	Hazard Class
Justification (To Approver)				
Note to Receiver				Total of Requisitio \$82.82

Requisition Lines

Line #	Line Type	PO Line Category	Description (Start with a Noun) (240 Characters Maximum, Enter Additional Description in Cell Below Line Item)	Quantity	Unit of Measure	Price Per Unit	Extended Price	Charge Account / Cost Element	Split Coding Qty's
1	GR	Electronics	16-Bit DACPORT AD669BR , Analog Devices , Stock #: AD669BR	1	Each	\$30.00	\$30.00	-41	
2	GR	Electronics	LVDS Driver, Quad DS90C031TM , National Semicond , Stock #: DS90C031TM	10	Each	\$2.78	\$27.80	-41	
3	GR	Electronics	LVDS Receiver, Quad DS90C032TM , National Semicond , Stock #: DS90C032TM	9	Each	\$2.78	\$25.02	-41	

Fermilab PURCHASE REQUISITION

Total Cost:

\$82.82

Fermilab PURCHASE REQUISITION

Requisition

Regulation Number (Filled in by System)	Oracle Preparer (Filled in by System)	Date 2/8/02	Request Originator: Craig Drennan	Extension: x2160 MS: MS222
Division/Section Approval		Date	NEPA Approval	
Business Office Approval		Date		
Directorate Approval		Date		

Requisition Header

Description (of entire requisition)	Electronic components for the SMC Crate Controller and SMD SMQIE Boards
Note to Approver	

Requisition Entry Defaults

Requester Craig Drennan		Deliver-To-Location WH14E	Note to Buyer		
Suggested Vendor STK : Fermilab Stockroom www-stock.fnal.gov/stock/		Suggested Vendor Si Pine St at Kirk Rd. Batavia IL 60510-05		Suggested Vendor Contact	Suggested Vendor Telephone # (630) 840-3825
Reference #	Need-By-Date 6/15/99	Charge Account (Budget Code / Cost Element)		UN Number (Chemical #)	Hazard Class
Justification (To Approver)					
Note to Receiver					Total of Requisitio \$2.67

Requisition Lines

Line #	Line Type	PO Line Category	Description (Start with a Noun) (240 Characters Maximum, Enter Additional Description in Cell Below Line Item)	Quantity	Unit of Measure	Price Per Unit	Extended Price	Charge Account / Cost Element	Split Coding Qty's
1	GR	Electronics	Fuse, 1A, Pico II 251001 , LITTLEFUSE , Stock #: 1120-0225	2	Each	\$0.89	\$1.78	-41	
2	GR	Electronics	Fuse, 2A, Pico II 251002 , LITTLEFUSE , Stock #: 1120-0235	1	Each	\$0.89	\$0.89	-41	

Total Cost:

\$2.67